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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/781,458	02/18/2004	Floyd Backes	160-052	1742	
	7590 06/26/2007 S & MANARAS LLP	EXAMINE			
125 NAGOG PARK			MEW, KEVIN D		
ACTON, MA	01720		ART UNIT PAPER NUMBE	PAPER NUMBER	
•			2616		
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			06/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
Office A. A. Company	10/781,458	BACKES ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kevin Mew	2616	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re on. Deriod will apply and will expire SIX (6) MON statute, cause the application to become AB.	CATION. Apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	01 March 2007.		
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.		
3) Since this application is in condition for all	lowance except for formal matte	ers, prosecution as to the merits is	
closed in accordance with the practice un	der <i>Ex parte</i> Q <i>uayle</i> , 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-6</u> is/are pending in the applicat	tion.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	and/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a)		by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	orrection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).	
11) ☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	reign priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority docur	ments have been received.		
2. Certified copies of the priority docur	ments have been received in Ap	pplication No	
3. Copies of the certified copies of the	priority documents have been	received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	a list of the certified copies not r	eceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) Paper No(s)	/Mail Date formal Patent Application	
Paper No(s)/Mail Date	6) Other:	• •	

Application/Control Number: 10/781,458 Page 2

Art Unit: 2616

Detailed Action

Response to Amendment

- 1. Applicant's Appeal Brief filed on 3/1/2007 has been considered. Claims 1-6 are currently pending.
- 2. Applicant's arguments as set forth in the Appeal Brief are persuasive and, therefore, the finality of that action is withdrawn. However, upon further consideration by the examiner, claims 1-6 of the instant application are rejected under a new ground of rejection as set forth below.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication No. US 2004/0054767 A1 by Karaoguz et al. in view of U.S. Patent No. 6,681,256 to Kuntze et al.

Regarding claim 1, Karaoguz teaches an apparatus in an access point (e.g., access point 115, see FIG. 1) in a wireless communications environment (e.g., wireless network 110) including multiple access points (e.g., see paragraphs 0019-0021 regarding a plurality of access

Art Unit: 2616

points) and stations (e.g., wireless devices 120a-120n), wherein stations (e.g., 120a-120n) gain network access by associating with one or more of the access points (e.g., 115), comprising:

logic for keeping track of one or more parameters related to the stations in the network (e.g., gathering and storing statistical information such as location and identity information of the wireless devices 120-120n, power levels, channel cycling, frequencies, coverage area, traffic patterns, etc., see paragraph 0024);

logic for evaluating the one or more parameters to produce an evaluation (e.g., see paragraph 0033 regarding location information processor determining the distance range using the gathered or stored information); and

logic for causing a station (e.g., 120a-120n) to become associated with the access point (e.g., 115) based upon the evaluation (e.g., see paragraph 0045 regarding modifying the network to achieve optimized network configuration based upon the location information and statistical information; see also paragraph 0021 regarding a wireless devices receiving coverage from an access point in the geographic area upon the access point powering on, and paragraph 0028 regarding adjusting transmission power levels for optimal network configuration for continued coverage in accordance with the stored information; see also paragraph 0033 regarding location information processor for determining the distance range which is used for causing a station to become associated with an access point).

Karaoguz may not specifically disclose receiving messages from the stations indicative of a request to associate with the access point and selecting thereafter one of the stations by the access point.

Art Unit: 2616

However, Kuntze, like Karaoguz, also teaches communications between an access point and mobile stations in a wireless environment (Fig. 1), and further, Kuntze specifically teaches an access point having a transceiver circuitry 18 to receive and detect registration messages sent out from the mobile terminals for associating the mobile terminals to the access point (logic for receiving messages from stations indicative of a request to associate the access point, col. 3, lines 48-54, col. 7, lines 4-16 and Fig. 1) and having determinations to permit a newly-arrived mobile terminal with the coverage area to become associated with the access point (logic for selecting one of the stations from which the message was received to become associated with the access point, col. 7, lines 48-67 and col. 8, lines col. 1-10, 27-35). The access point will further send, during selected frames, wake-up indicators to indicate whether the frame contains a wake-up message for a particular mobile terminal. If the frame contains a wake-up indicator for a particular mobile station, the mobile station will wake up and get ready for transmission, otherwise the mobile station will continue to be in sleep mode if the frame does not contain a wake-up indicator (col. 8, lines 36-44).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to apply the access point and station communication teachings of Kuntze to the communications between the access point and mobile stations of Karaoguz such that Karaoguz will comprise logic for receiving messages from the stations indicative of a request to associate with the access point and selecting thereafter one of the stations by the access point.

The motivation to do so is to give higher priority to the newly arrived mobile terminal, which previously has not been allocated channel resources, to be associated with the access point first.

Regarding claim 2, Karaoguz teaches logic for receiving messages from stations, wherein the messages include at least some of the one or more parameters (e.g., see paragraphs 0029-0038 regarding determining device location, and specifically paragraph 0036 regarding the wireless device sending a range message acknowledgement).

Regarding claim 3, Karaoguz teaches a parameter is the number of stations associated with the access point (e.g., inherently represented by the identity information of each wireless device associated with the access point, see paragraph 0024).

Regarding claim 4, Karaoguz teaches a parameter is the distance of a station (e.g., wireless device 120a-120n) from the access point (e.g., 115) (e.g., see paragraphs 0029-0038, and specifically paragraph 0029 regarding determining a distance range location information of a wireless device).

Regarding claim 5, Karaoguz teaches at least some of the one or more parameters are stored in a table (e.g., see paragraph 0040 regarding the information being stored in a data memory unit within the access point, inherently comprising a table).

Regarding claim 6, as discussed above regarding claims 1-4, Karaoguz teaches an apparatus in an access point (e.g., access point 115, see FIG. 1) in a wireless communications environment (e.g., wireless network 110) including multiple access points (e.g., see paragraphs

0019-0021 regarding a plurality of access points) and stations (e.g., wireless devices 120a-120n), wherein stations (e.g., 120a-120n) gain network access by associating with one or more of the access points (e.g., 115), comprising:

logic for keeping track of one or more parameters related to stations in the network (e.g., gathering and storing statistical information such as location and identity information of the wireless devices 120-120n, power levels, channel cycling, frequencies, coverage area, traffic patterns, etc., see paragraph 0024);

logic for evaluating the one or more parameters to produce an evaluation (e.g., see paragraph 0033 regarding location information processor determining the distance range using the gathered or stored information); and

logic for causing a station (e.g., 120a-120n) to become associated with the access point (e.g., 115) based upon the evaluation (e.g., see paragraph 0045 regarding modifying the network to achieve optimized network configuration based upon the location information and statistical information; see also paragraph 0021 regarding a wireless devices receiving coverage from an access point in the geographic area upon the access point powering on, and paragraph 0028 regarding adjusting transmission power levels for optimal network configuration for continued coverage in accordance with the stored information; see also paragraph 0033 regarding location information processor for determining the distance range which is used for causing a station to become associated with an access point), in order to gain network access to communicate with other stations via the access point (e.g., see paragraph 0015 regarding, "all communications between the devices 120a, 120b, 120c, 120d120n or between the devices and the wired network 105 can go through the node or Access Point 115"). Further, as discussed above

regarding claim 2, Karaoguz teaches logic for receiving messages from stations, wherein the messages include at least some of the one or more parameters (e.g., see paragraphs 0029-0038 regarding determining device location, and specifically paragraph 0036 regarding the wireless device sending a ranger message acknowledgement). Still further, as discussed above regarding claim 3, Karaoguz teaches a parameter is the number of stations associated with the access point (e.g., inherently represented by the identity information of each wireless device associated with the access point, see paragraph 0024). Finally, as discussed above regarding claim 4, Karaoguz teaches a parameter is the distance of a station (e.g., wireless device 120a-120n) from the access point (e.g., 115) (e.g., see paragraphs 0029-0038, and specifically paragraph 0029 regarding determining a distance range location information of a wireless device).

Karaoguz may not specifically disclose receiving messages from the stations indicative of a request to associate with the access point and selecting thereafter one of the stations by the access point.

However, Kuntze, like Karaoguz, also teaches communications between an access point and mobile stations in a wireless environment (Fig. 1), and further, Kuntze specifically teaches an access point having a transceiver circuitry 18 to receive and detect registration messages sent out from the mobile terminals for associating the mobile terminals to the access point (logic for receiving messages from stations indicative of a request to associate the access point, col. 3, lines 48-54, col. 7, lines 4-16 and Fig. 1) and having determinations to permit a newly-arrived mobile terminal with the coverage area to become associated with the access point (logic for selecting one of the stations from which the message was received to become associated with the access point, col. 7, lines 48-67 and col. 8, lines col. 1-10, 27-35). The access point will further send,

Application/Control Number: 10/781,458 Page 8

Art Unit: 2616

during selected frames, wake-up indicators to indicate whether the frame contains a wake-up message for a particular mobile terminal. If the frame contains a wake-up indicator for a particular mobile station, the mobile station will wake up and get ready for transmission, otherwise the mobile station will continue to be in sleep mode if the frame does not contain a wake-up indicator (col. 8, lines 36-44).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to apply the access point and station communication teachings of Kuntze to the communications between the access point and mobile stations of Karaoguz such that Karaoguz will comprise logic for receiving messages from the stations indicative of a request to associate with the access point and selecting thereafter one of the stations by the access point.

The motivation to do so is to give higher priority to the newly arrived mobile terminal, which previously has not been allocated channel resources, to be associated with the access point first.

Response to Arguments

4. Applicant's arguments filed 3/1/2007 with respect to claims 1-6 have been considered but are most in view of the new ground(s) of rejection.

Application/Control Number: 10/781,458 Page 9

Art Unit: 2616

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Mew whose telephone number is 571-272-3141. The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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